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**Product Data Sheet**

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Product Name: LY 178002

Cat. No.: GC30610

**Chemical Properties**

Cas. No. 107889-32-7

SMILES O=C1NCS/C1=C/C2=CC(C(C)(C)C)=C(O)C(C(C)(C)C)=C2Formula  $C_{18}H_{25}NO_2S$  M.Wt 319.46

Solubility Soluble in DMSO Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Background**

LY 178002 is a potent inhibitor of 5-lipoxygenase, phospholipase A2, with IC50 of 0.6 μM for 5-lipoxygenase, inhibits cellular production of LTB4 by human polymorphonuclear leukocytes, and shows relatively weak inhibition on cyclooxygenase.

LY178002 inhibits the generation of LTB4, PLA2 and FCO with IC50s of 0.1, 6.3 and 4.2 μM [1].

LY 178002 (50 mg/kg) inhibits soft tissue swelling in the uninjected paw by 81%, and inhibits bone damage in rats. The minimum effective dose for LY178002 is 10 mg/kg p.o. In the established FCA model LY178002 at 50 mg/kg p.o. inhibits the uninjected paw swelling by 75%[1].

[1]. Panetta JA, et al. The anti-inflammatory effects of LY178002 and LY256548. Agents Actions. 1989 Jun;27(3-4):300-2.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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